

9.0 BIBLIOGRAPHY

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APPENDIX A

FACILITY DESCRIPTIONS

APPENDIX

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APPENDIX A FACILITY DESCRIPTIONS

A.1 INTRODUCTION

This appendix provides a description of facilities within the scope of this engineering evaluation/cost analysis (EE/CA). Facilities within the scope of this evaluation are listed in Table A-1. Since the 1980s, a portion of the 100-K Area infrastructure has been kept operational to support the storage and remediation of spent fuel in the 105-KE and 105-KW Basins (K Basins). While most of the fuel has been removed, some of these buildings and systems remain active to support the final spent fuel and sludge removal and deactivation of the basins. As these activities are completed, the remaining facilities and systems will be released for disposition in accordance with the action memorandum associated with this EE/CA. Those facilities that support other projects, K Basins Closure as described above and the Groundwater Project, are noted in Table A-1.

Tables A-2 through A-54 in this appendix summarize a number of characteristics, including facility name, number, location, size, construction, operational and process history, and waste characterization. The information within the tables was compiled from a variety of sources that include technical baseline reports, completion reports, and other building documents. The tables provide information on the 105-KW and 105-KE Reactors, followed by 100-K Area Facilities.

Table A-1. 100-K Area Buildings Included in the Scope of the EE/CA. (6 Pages)

Building Number	Building Name	Covered in Other Documents/Notes	Covered by this EE/CA	Supports Other Projects as of March 2006
105-KE	Reactor Building		X	X
105-KE	Water Tunnels		X	X
105-KE FSB	Fuel Storage Basin	100-KR-2 OU ROD with amendments		
105-KW	Reactor Building		X	X
105-KW	Water Tunnels		X	X
105-KW FSB	Fuel Storage Basin	100-KR-2 OU ROD with amendments		
107-K	Retention Basin	Structures removed; only revegetation following waste site work is needed		
110-KE	Gas Storage Facility	DOE/RL-2004-43		
110-KW	Gas Storage Facility	DOE/RL-2004-43		
115-KE	Gas Recirculation Facility	DOE/RL-2004-43		

Table A-1. 100-K Area Buildings Included in the Scope of the EE/CA. (6 Pages)

Building Number	Building Name	Covered in Other Documents/Notes	Covered by this EE/CA	Supports Other Projects as of March 2006
115-KW	Gas Recirculation Facility	DOE/RL-2004-43		
116-KE	Reactor Exhaust Stack (includes 116-KW)	DOE/RL-2004-43		
117-KE	Exhaust Air Filter Building	DOE/RL-2004-43		
117-KW	Exhaust Air Filter Building	DOE/RL-2004-43		
118-KE2	Horizontal Control Rod Storage Cave	DOE/RL-2004-43		
118-KW2	Horizontal Control Rod Storage Cave	DOE/RL-2004-43		
119-KE	Exhaust Air Sample Building		X	
119-KW	Exhaust Air Sample Building	DOE/RL-2004-43		
142-K	CVDF		X	X
142-KA	CVDF Generator Building		X	X
1506-K1	Fiber Optics Computer Hut		X	X
150-KE	Heat Recovery Station	Demolished		
150-KW	Heat Recovery Station	Demolished		
151-K	Switching Station		X	
151-KE	Substation 230-KV		X	X
151-KW	Substation 230-KV		X	X
1604-K	Process Building KR4	Expected to be active through 2012	X	X
1605-K	Guard Towers and Fences, to include poles, lines and above-grade utility piping		X	X
1606-K	Transfer Building KR-3	Expected to be active through 2012	X	X
1607-K	Transfer Building 1	Expected to be active through 2012	X	X
1614-K	Environmental Monitoring Station	DOE/RL-2004-43		
165-KE	Power Control Building		X	X
165-KW	Power Control Building		X	
166A-KE	Oil Storage Facility Valvehouse		X	
166A-KW	Oil Storage Facility Valvehouse		X	
166-KE	Oil Storage Vault	DOE/RL-2004-43		
166-KW	Oil Storage Vault	DOE/RL-2004-43		
167-K/167-KE	Crosstie Tunnel Building		X	X

Table A-1. 100-K Area Buildings Included in the Scope of the EE/CA. (6 Pages)

Building Number	Building Name	Covered in Other Documents/Notes	Covered by this EE/CA	Supports Other Projects as of March 2006
1701-K	Abandoned Guardhouse (at Southwest corner of 1720-K)	DOE/RL-2004-43		
1705-KE	Effluent Water Treatment Pilot Plant		X	
1706-KE	Water Studies Semi-Works Building		X	X
1706-KEL	Development Laboratory		X	X
1706-KER	Water Studies Recirculation Building		X	X
1713-KE	Shop Building		X	X
1713-KER	Warehouse		X	X
1713-KW	Warehouse		X	X
1714-KE	Oil and Paint Storage Shed		X	X
1714-KW	Warehouse		X	X
1717-AKE	Fan House		X	X
1717-K	Maintenance/Transportation Shop		X	X
1720-K	Administrative Office Building	DOE/RL-2004-43		
1724-K	Maintenance Shop		X	X
1724-KA	Equipment Shed		X	X
1724-KB	Gas Bottle Storage Building		X	X
181-KE	River Pump House		X	X
181-KW	River Pump House		X	
182-K	Emergency Water Reservoir Pump House	DOE/RL-2004-43		
183-KW	Chlorine Vault for KW Water Plant	DOE/RL-2004-43		
183.1-KE	Headhouse		X	X
183.1-KW	Headhouse	DOE/RL-2004-43		
183.2-KE	Basins/Sedimentation		X	X
183.2-KW	Basins/Sedimentation	DOE/RL-2004-43		
183.3-KE	Basin/Filters		X	X
183.3-KW	Basin/Filters	DOE/RL-2004-43		
183.4-KE	Reservoir and Clearwells		X	X
183.4-KW	Reservoir and Clearwells	DOE/RL-2004-43		
183.5-KE	Lime Feeder Building		X	X
183.5-KW	Lime Feeder Building	DOE/RL-2004-43		
183.6-KE	Lime Feeder Building		X	X

Table A-1. 100-K Area Buildings Included in the Scope of the EE/CA. (6 Pages)

Building Number	Building Name	Covered in Other Documents/Notes	Covered by this EE/CA	Supports Other Projects as of March 2006
183.6-KW	Lime Feeder Building	DOE/RL-2004-43		
183.7-KE	Pipe Tunnel		X	X
183.7-KW	Pipe Tunnel	DOE/RL-2004-43		
183-K	Pipe Tunnels		X	X
183-KE	Chlorine Vault		X	X
184-K	Water Treatment Building	Does not exist		
185-K	Potable Water Treatment Plant		X	X
1908-K	Effluent Outfall	Remaining Sites ROD, Table A-1		
1908-KE	Effluent Water Monitoring Station		X	
1909-K	Effluent Valve Pit	DOE/RL-2004-43		
190-KE	Main Pump House		X	
190-KW	Process Water Pump House	DOE/RL-2004-43		
296-K105	Air Sparging Vent 105-KW Basin		X	X
296-K142	CVDF Main Stack		X	X
CC1K0035	Cargo Container N of 105-KW	Note 1	X	X
CC1K0036	Cargo Container N of 105-KE	Note 1	X	X
CC1K0037	Cargo Container N of 1714-KE	Note 1	X	X
CC1K0176	Cargo Container E of 115-KE	Note 1	X	X
CC1K0177	Cargo Container E of 115-KE	Note 1	X	X
CC1K0178	Cargo Container E of 115-KE	Note 1	X	X
CC1K0179	Cargo Container E of 115-KE	Note 1	X	X
CC1K0180	Cargo Container E of 115-KE	Note 1	X	X
CC1K0181	Cargo Container E of 115-KE	Note 1	X	X
CC1K0182	Cargo Container E of 115-KE	Note 1	X	X
CC1K0236	Cargo Container NE of 142-K	Note 1	X	X
HS0028	Storage Container at KA-CW-1 N of 166-KE	Note 2	X	X
HS0080	Storage Container	Note 2	X	X
HS0081	Storage Container	Note 2	X	X
KA-CW-01	CERCLA Storage Unit	Note 2	X	X
MO-048	Mobile Office - N of 165-KE (1733-KE)	Note 3	X	X

Table A-1. 100-K Area Buildings Included in the Scope of the EE/CA. (6 Pages)

Building Number	Building Name	Covered in Other Documents/Notes	Covered by this EE/CA	Supports Other Projects as of March 2006
MO-054	Mobile Office - S of MO500 (1734-K)	Note 3	X	X
MO-060	Training Mobile Office - E of MO969	Note 3	X	X
MO-101	Mobile Office at 1717-K (1711-K)	Note 3	X	X
MO-102	Mobile Office at 1717-K (1709-K)	Note 3	X	X
MO-214	Mobile Office - Patrol Badgehouse (1701-K)	DOE/RL-2004-43		
MO-236	Mobile Office - S of 115-KW (1728-KW)	Note 3	X	X
MO-237	Mobile Office - S of 115-KW (1729-KW)	Note 3	X	X
MO-293	Mobile Office - E of 183-KE (1725-K)	Note 3	X	X
MO-323	CVDF Change Trailer	Note 3	X	X
MO-382	MO abandoned 1720-K	Note 3	X	X
MO-401	Mobile Office - At 1724-K (1719-K)	Note 3	X	X
MO-402	Mobile Office - (1718-K)	Note 3	X	X
MO-420	Mobile Office- Patrol Checkpoint	Moved to 200W/PFP		
MO-434	Mobile Office	at 200E(CSB)		
MO-442	Mobile Office - at 183, 1-KE (1726-K)	Note 3	X	X
MO-474	Mobile Office	Moved to 100 B Area		
MO-495	Mobile Office - SW of 142 (CVDF)	Note 3	X	X
MO-500	Mobile Office - S of 1724-K (1737-K)	Note 3	X	X
MO-506	Mobile Office - S of CVDF	Note 3	X	X
MO-507	Mobile Office -S of 142-K CVDF	Note 3	X	X
MO-728	Mobile Office - Operations Room	at 200E(CSB)		
MO-731	Mobile Office	at 200E(CSB)		
MO-907	Mobile Office - at CVDF	Note 3	X	X
MO-917	Mobile Office -at CVDF	Note 3	X	X
MO-928	Mobile Office - at 1717-K (1723-K)	Note 3	X	X
MO-955	Mobile Office - S of 115-KW (1732-KW)	Note 3	X	X

Table A-1. 100-K Area Buildings Included in the Scope of the EE/CA. (6 Pages)

Building Number	Building Name	Covered in Other Documents/Notes	Covered by this EE/CA	Supports Other Projects as of March 2006
MO-969	Mobile Office - N of 165-KE (1730E)	Note 3	X	X

NOTES:

1. Current Cargo Container List, but others may be included if located in the 100-K Area.
2. Current Storage Unit list, but others may be included if located in the 100-K Area.
3. Current Mobile Office list, but others may be included if located in the 100-K Area.

CVDF = Cold Vacuum Drying Facility

DOE = U.S. Department of Energy

EE/CA = Engineering Evaluation/Cost Analysis

OU = Operable Unit

RL = Richland Operations Office

ROD = Record of Decision

Table A-2

Name	Reactor Building
Number	105-KE: WIDS # - 100-K-42
Location	Central KE Area
Operational Years	1955 to 1971 (K Basin Closure Support)
Building Description	<p>A concrete and structural steel multi-story structure having reinforced concrete or transite siding, precast reinforced concrete or insulating concrete roof with built-up asphalt and gravel surfacing.</p> <p>Dimensions: 5,457 m² (58,739 ft²) total area</p>
Status/History	<p>The building contains the reactor, control room, offices, conference room, lunchroom, change room, spent fuel storage areas, ventilation systems, and certain test facilities.</p> <p>Appurtenances: 91.5 m (300 ft) reinforced concrete exhaust stack, railroad spur entering the building, 150-KE heat exchanger for utilizing reactor effluent water heat for space heating.</p>
Characterization	Radiological contamination; unquantified hazardous construction materials

Table A-3

Name	Water Tunnels
Number	105-KE
Location	South end of 105-KE
Operational Years	1955 to 1971 (K Basin Closure Support)
Building Description	Concrete raceway carrying pipes from the 190-KE Main Pump House Building to the 105-KE Reactor Building
Status/History	
Characterization	Unquantified water treatment chemicals

Table A-4

Name	Reactor Building
Number	105-KW; WIDS # - 100-K-3
Location	Central KW Area
Operational Years	1955-1970 (K Basin Closure Support)
Building Description	<p>Almost identical to 105-KE. Differs somewhat in test facilities.</p> <p>A concrete and structural steel multi-story structure having reinforced concrete or transite siding, precast reinforced concrete or insulating concrete roof with built-up asphalt and gravel surfacing.</p> <p>Dimensions: 5,457 m² (58,739 ft²) total area</p>
Status/History	<p>The building contains the reactor, control room, offices, conference room, lunchroom, change room, spent fuel storage areas, ventilation systems, and certain test facilities.</p> <p>Appurtenances: 91.5 m (300 ft) reinforced concrete exhaust stack, railroad spur entering the building, 150-KW heat exchanger for utilizing reactor effluent water heat for space heating.</p>
Characterization	Radiological contamination; unquantified hazardous construction materials

Table A-5

Name	Water Tunnels
Number	105-KW
Location	South end of 105-KW
Operational Years	1955-1970 (K Basin Closure Support)
Building Description	Concrete raceway carrying pipes from the 190 Main Pump House Building to the 105-KW Reactor Building.
Status/History	
Characterization	Unquantified water treatment chemicals

Table A-6

Name	Exhaust Air Sample Building
Number	119-KE
Location	Northeast end of 105-KE Reactor; southwest of 117-KE
Operational Years	1961 to 1971
Building Description	A small, pre-engineered, ribbed-metal building on a concrete slab foundation. The building is 84.7 m ² (912 ft ²) (GE 1964).
Status/History	The 119-KE Exhaust Air Sample Building is located over the ventilation ducts that lead to the 117-KE Building. The building was designed to house most of the instrumentation for the exhaust air systems and is located over the vent ducts that lead from the filter buildings. (PNL 1991)
Characterization	Radiological contamination; unquantified hazardous construction materials

Table A-7

Name	CVDF
Number	142-K
Location	West of 190-KW
Operational Years	2001 to present
Building Description	A steel frame pre-cast concrete building within the 100-K fenced area. The building has two pre-engineered metal building wings/attachments, and is designed to house four process bays for dewatering and drying fuel in multi-canister overpacks shipped from the K Basins.
Status/History	Equipment that is installed and tested includes process equipment skids, hydrogen mitigation skids, waste water conditioning skid, distributive control system, personnel contamination monitors, helium storage tank, nitrogen storage tank, communications fiber and phone, high efficiency filters, process and recirculation tanks, and stack monitoring system. This building is expected to be refurbished to treat and or package (for shipment to other treatment facility) basin sludge for shipment from K Basins.
Characterization	Radiological contamination

Appendix A – Facility Descriptions

Table A-8

Name	CVDF Generator Building
Number	142-KA
Location	West of 190-KW
Operational Years	2001 to present
Building Description	A steel building on a concrete slab and houses the CVDF generator.
Status/History	Currently in use.
Characterization	Radiological contamination

Table A-9

Name	Fiber Optics Computer Hut
Number	1506-K1
Location	
Operational Years	1995 to present
Building Description	Connex box which contains the LMSI HLAN terminal for the area computing needs.
Status/History	Currently in use.
Characterization	Potential radiological contamination

Table A-10

Name	Switching Station
Number	151-K
Location	
Operational Years	1955 to present
Building Description	
Status/History	Electrical power for the 100 Areas came from the Grand Coulee Dam to Bonneville Dam grid via the Midway Substation and the 151 Primary Substations. The offsite electrical power enters the site at the 151 KW substation at a voltage of 230 kV. The power is transformed to a voltage of 13.8 kV in the substation. The 13.8 kV is supplied to the 105-KE Basin through the cross-tie tunnel, and then transformed further at both the 105-KW and 105-KE Basins to K Basins utilization voltages of 4160 and 480 V for use in the 100-K Buildings. DOE-RL has operational requirements for this building past 2012.
Characterization	Unquantified hazardous construction material, PCB leaks and spills

Table A-11

Name	Substation 230-KV
Number	151-KW
Location	
Operational Years	1955 to present
Building Description	
Status/History	The offsite electrical power enters the site at the 151 KW substation at a Bonneville Power Administration (BPA) distribution voltage of 230 kV. The power is transformed to a voltage of 13.8 kV in the substation. The 13.9 kV is supplied to the 105-KE Basin through the cross-tie tunnel, and then transformed further at both the 105-KW and 105-KE Basins to K Basins utilization voltages of 4160 and 480 V for use in the 100-K Buildings. DOE-RL has operational requirements for this facility past 2012.
Characterization	Unquantified hazardous construction material, PCB leaks and spills

Table A-12

Name	Substation 230-KV
Number	151-KE
Location	
Operational Years	1955 to present
Building Description	
Status/History	Electrical power for the 100 Areas came from the Grand Coulee Dam to Bonneville Dam grid via the Midway Substation and the 151 Primary Substations. The offsite electrical power enters the site at the 151 KW substation at a voltage of 230 kV. The power is transformed to a voltage of 13.8 kV in the substation. The 13.8 kV is supplied to the 105-KE Basin through the cross-tie tunnel, and then transformed further at both the 105-KW and 105-KE Basins to K Basins utilization voltages of 4160 and 480 V for use in the 100-K Buildings. DOE-RL has operational requirements for this facility past 2012.
Characterization	Unquantified hazardous construction material, PCB leaks and spills

Table A-13

Name	Process Buildings KR4
Number	1604-K
Location	
Operational Years	1993 to present
Building Description	A metal frame building with a cement floor that contains pumps and the resin column used to filter water from the groundwater pump and treat operations. The facility also includes the array of collection and distribution pipe and hose systems that support the groundwater treatment. It does not include the extraction and injection wells.
Status/History	DOE-RL has operational requirements for this building past 2012.
Characterization	Radiological and chemical contamination

Table A-14

Name	Guard Towers and Fences, including poles, lines and above-grade utility piping
Number	1605-K
Location	
Operational Years	1955 to present
Building Description	The function of the fences and guard towers was to serve as part of the security system, to observe and guard the region and to prevent any unauthorized entries, and to watch for the outbreak of fires.
Status/History	Currently in use
Proximity to Other Buildings	
Characterization	Unquantified hazardous construction materials, radiological contamination

Table A-15

Name	Transfer Buildings KR-3
Number	1606-K
Location	
Operational Years	1993 to present
Building Description	A metal frame building with a cement floor that houses pumps for the groundwater pump and treat operations. The facility also includes the array of collection and distribution pipe and hose systems that support the groundwater treatment. It does not include the extraction and injection wells.
Status/History	DOE-RL has operational requirements for this building past 2012.
Characterization	Radiological and chemical contamination

Table A-16

Name	Transfer Buildings
Number	1607-K
Location	
Operational Years	1993 to present
Building Description	A metal frame building with a cement floor that houses pumps for the groundwater pump and treat operations. The facility also includes the array of collection and distribution pipe and hose systems that support the groundwater treatment. It does not include the extraction and injection wells.
Status/History	DOE-RL has operational requirements for this building past 2012.
Characterization	Radiological and chemical contamination

Table A-17

Name	Power Control Building
Number	165-KE; WIDS# - 100-K-67
Location	Northwest of 190-KE and east of 166-KE
Operational Years	1955-present
Building Description	<p>A single-story concrete structure with reinforced concrete floors, walls, and poured roof with built-up asphalt and gravel surfacing.</p> <p>The building consists of three parts: The pump room and valve pit with steel grating floor providing work area; the electrical area consisting of two concrete floors; the oil fired steam plant; and control room.</p> <p>Dimensions: approximately 4,910 m² (52,851 ft²) of space.</p>
Status/History	<p>The purpose of the building was to provide housing for power house, control room, valve pit, and electrical switchgear for water supply system.</p> <p>Appurtenances: Adjacent 230 kV switchyard. Subsurface oil storage bunkers and oil pump facilities, 166-KE.</p>
Characterization	Chemical contamination and PCBs leaks and spills

Appendix A – Facility Descriptions

Table A-18

Name	Power Control Building
Number	165-KW; WIDS # - 100-K-66
Location	Northwest of 190-KW and east of 166-KW.
Operational Years	1955-1971
Building Description	<p>Identical to 165-KE Building. A single-story concrete structure with reinforced concrete floors, walls, and poured roof with built-up asphalt and gravel surfacing.</p> <p>The building consists of three parts: The pump room and valve pit with steel grating floor providing work area; the electrical area consisting of two concrete floors; the oil fired steam plant; and control room.</p> <p>Dimensions: approximately 4,910 m² (52,851 ft²) of area.</p>
Status/History	<p>The purpose of the building was to provide housing for power house, control room, valve pit, and electrical switchgear for water supply system.</p> <p>Appurtenances: Adjacent 230 kV switchyard. Subsurface oil storage bunkers and oil pump facilities, 166-KE.</p> <p>The air compressors and receivers have been removed. Most of the asbestos lagging has been removed. Cleanup of the remaining asbestos and of asbestos already removed remains to be completed.</p>
Characterization	Chemical contamination and PCBs leaks and spills

Table A-19

Name	Oil Storage Facility Valvehouse
Number	166A-KE
Location	West of 165-KE
Operational Years	1955-1971
Building Description	Instrument shed for the 166-K oil bunker and equipment. The valvehouse house controlled steam heating, pumping, and monitored levels. .
Status/History	
Characterization	Unquantified hazardous construction materials; chemical contamination

Table A-20

Name	Oil Storage Facility Valvehouse
Number	166A-KW
Location	West of 165-KW
Operational Years	1955-1970
Building Description	Small instrument and valve housed on top of the bunkers that controlled steam heating, pumping and monitored levels.
Status/History	
Characterization	Unquantified hazardous construction materials; chemical contamination

Table A-21

Name	Crosstie Tunnel Building
Number	167-K/167-KE
Location	
Operational Years	1955-1971 (K Basin Closure Support)
Building Description	A concrete structure that is the midway ventilation and entry shaft for the 100-KE/KW crosstie tunnel.
Status/History	
Characterization	Water treatment chemicals

Table A-22

Name	Effluent Water Treatment Pilot Plant
Number	1705-KE
Location	Northwest of 165-KE.
Operational Years	1955-1971
Building Description	A concrete block structure that is attached to 165-KE. It has approximately 51 m ² (552 ft ²) of space and is in a deactivated status.
Status/History	
Characterization	Radiological and chemical contamination, biohazards

Table A-23

Name	Water Studies Semi-Works Building
Number	1706-KE
Location	Located at the southwest corner of the 105-KE Reactor.
Operational Years	1955-1971 (K Basin Closure Support)
Building Description	<p>The 1706-KE building is a single-story concrete and steel frame structure with corrugated transite siding, concrete floors, and flat roof with built-up asphalt and gravel surfacing over cement board and 6.3mm (¼ in) steel plate. It has a full basement with half sub-basement. The ground floor walls are concrete block and the upper levels are of transite siding.</p> <p>Dimensions: approximate area of 1,042 m² (11,216 ft²).</p>
Status/History	Purpose is to provide out-of-reactor facilities in support of in-reactor test loops and single-pass tubes. It provides water treatment facilities and instrumented supply systems for eight KE-Reactor tubes used for studies of corrosion and effects of water treatment parameters on effluent activity. One small room contains a TSD unit that is still active.
Characterization	Radiological and chemical contamination; unquantified hazardous construction materials

Table A-24

Name	Development Laboratory
Number	1706-KEL
Location	Adjoins the 1706-KER Water Studies Recirculation building.
Operational Years	1955-1971 (K Basin Closure Support)
Building Description	A 251 m ² (2,702 ft ²) building adjoining the 1706-KER building.
Status/History	About half of this building is used for instrument development pertinent to water treatment and corrosion control. The remaining part is outfitted for handling corrosion coupons that may be mildly contaminated.
Characterization	Radiological and chemical contamination; unquantified hazardous construction materials